

**(19) World Intellectual Property  
Organization  
International Bureau**



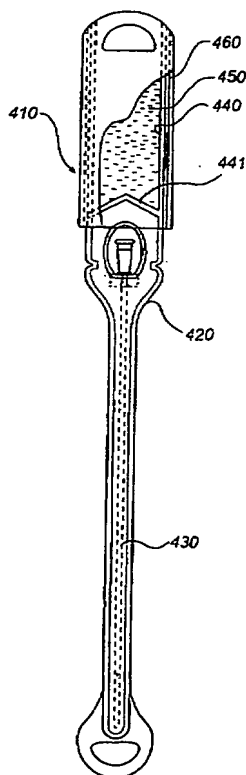
**PCT**

**(10) International Publication Number**  
**WO 2005/061035 A1**

- (51) **International Patent Classification<sup>7</sup>:** A61M 25/00, A61L 29/08
- (21) **International Application Number:** PCT/SE2004/001979
- (22) **International Filing Date:** 22 December 2004 (22.12.2004)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:** 0303525-0 22 December 2003 (22.12.2003) SE
- (71) **Applicant (for all designated States except US):** ASTRA TECH AB [SE/SE]; Aminogatan 1, S-431 21 Mölndal (SE).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** UTAS, Jan [SE/SE];
- Sparvvägen 9, S-434 96 Kungsbacka (SE). KULL, Kristina [SE/SE]; Hytterkullen 62, S-433 51 Öjersjö (SE).
- (74) **Agent:** AWAPATENT AB; Box 11394, S-404 28 Göteborg (SE).
- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
- [Continued on next page]

*[Continued on next page]*

**(54) Title:** CATHETER ASSEMBLY WITH OSMOLALITY-INCREASING FLUID



**(57) Abstract:** A catheter assembly is disclosed comprising: a hydrophilic catheter; a wetting fluid for wetting of the catheter; and a receptacle enclosing at least the insertable part of the catheter and the wetting fluid. Further, the wetting fluid is a solution incorporating at least one osmolality-increasing compound, and the total concentration of the osmolality-increasing compound(s) is very high, preferably exceeding 600 mOsm/dm<sup>3</sup>. The wetting fluid could either be arranged in contact with the hydrophilic surface layer of the catheter in the receptacle, for preservation of the hydrophilic surface layer in a wetted state during accommodation in said receptacle and provision of a ready-to-use catheter assembly, or be arranged to keep the wetting fluid separated from the hydrophilic surface layer of the catheter during storage, but to be brought into contact with said hydrophilic surface layer upon activation before an intended use of the catheter. A similar method and wetting fluid is disclosed as well. The provision of the osmolality-increasing compound in the wetting fluid provides several advantages per se, such as a improved properties of the hydrophilic coating, a more predictable and controllable wetting process, a more expedient and cost efficient production, etc. Further, the use of this very high concentration of osmolality-increasing compound in the wetting fluid has proven remarkably efficient.

**WO 2005/061035 A1**



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

**Declaration under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.